

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07043-100001	Application No. 10/004,235
	Applicant Eiji Shimada and Ronald S. Fearing		
	Filing Date October 31, 2001	Group Art Unit 3626	

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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**GROUP 3600****Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

**Other Documents (Include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
MB	AQ	Peter K. Allen, et al., "A System for Programming and Controlling a Multisensor Robotic Hand," <u>IEEE Transactions on Systems, Man, and Cybernetics</u> , Vol. 20, No. 6, November/December 1990, pages 1450-1456
MB	AR	Antonio Bicchi, "Hands for Dexterous Manipulation and Robust Grasping: A Difficult Road Toward Simplicity," <u>IEEE Transactions on Robotics and Automation</u> , Vo. 16, No. 6, December 2000, pages 652-662
MB	AS	Randy C. Brost, "Automatic Grasp Planning in the Presence of Uncertainty," <u>Proceedings 1986 IEEE International Conference on Robotics and Automation</u> , Vol. 3, 1986, pages 1575-1581

Examiner Signature

 MARK J. BUDD  
 PRIMARY EXAMINER  
 10/21/02

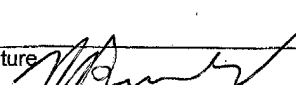
Date Considered

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Examiner Initial	Desig. ID	Document
MB	AT	Brian Carlisle, et al., "A Pivoting Gripper for Feeding Industrial Parts," <u>IEEE</u> , 1994, pages 1650-1655,
	AU	Alain Codourey, et al., "A Robot System for Automated Handling in Micro-World," <u>IEEE</u> , Institute of Robotics, ETH-Zurich, CLA, 8092 Zurich, 1995, pages 185-190
	AV	Michael Erdmann, et al., "Mechanical Parts Orienting: The Case of a Polyhedron on a Table," <u>Algorithmica</u> , Vol. 10, 1993, pages 226-247
	AW	Ronald S. Fearing, "Simplified Grasping and Manipulation with Dextrous Robot Hands," <u>IEEE Journal of Robotics and Automation</u> , Vol. RA-2, No. 4, December 1986, pages 188-195
	AX	Ronald S. Fearing, "Survey of Sticking Effects for Micro Parts Handling," <u>IEEE</u> , Dept. of EE&CS, University of California, Berkeley, CA, 1995, pages 212-217
	AY	John T. Feddema, et al., "Visual Servoing and CAD-Driven Microassembly," <u>IEEE Robotics and Automation Magazine</u> , December 1998, pages 18-24
	AZ	K. Goldberg, "Orienting Polygonal Parts Without Sensors," <u>Algorithmica</u> , Special Issue on Computational Robotics, Vol. 10, No. 3, pp. 201-225, August 1993
	AAA	Swaminathan Gopalswamy, et al., "Grasping Polyhedral Objects with Slip," <u>IEEE</u> , 1989, pages 296-301
	ABB	Takeshi Kasaya, et al., "Micro Object Handling Under SEM by Vision-based Automatic Control," <u>SPIE</u> , Vol. 3519, November 1998, pages 181-192
	ACC	Bradley J. Nelson, et al., "Sensor-Based Microassembly of Hybrid MEMS Devices," <u>IEEE</u> , December 1998, pages 35-45
	ADD	Anil Rao, et al., "Complete Algorithms for Feeding Polyhedral Parts Using Pivot Grasps," <u>IEEE Transactions on Robotics and Automation</u> , Vol. 12, No. 2, April 1996, pages 331-342
	AEE	Daniela Rus, "Coordinated Manipulation of Polygonal Objects," <u>Proceedings of the 1993 IEEE/RSJ International Conference on Intelligent Robots and Systems</u> , Yokohama, Japan, July 26-30, 1993, pages 106-112
	AFF	E. Shimada, et al., "Prototyping Millirobots Using Dextrous Microassembly and Folding," <u>Proceedings of the ASME Dynamic Systems and Control Division</u> , DSC-Vol. 69-2, 2000, pages 933-940
	AGG	Metin Sitti, et al., "Two-Dimensional Fine Particle Positioning Using a Piezoresistive Cantilever as a Micro/Nano-Manipulator," <u>Proceedings of the 1999 IEEE International Conference on Robotics and Automation</u> , Detroit, Michigan, May 1999, pages 2729-2735.
	AHH	A. Sulzmann, et al., "New developments in 3D Computer Vision for Microassembly," <u>SPIE</u> , Vol. 3519, November 1998, pages 36-46
	AII	Jeff Wiegley, et al., "A complete algorithm for designing passive fences to orient parts," <u>Assembly Automation</u> , Vol. 17, No. 2, 1997, pages 129-136.
	AJJ	Tsuneo Yoshikawa, et al., "Object Handling by Three-Fingered Hands Using Slip Motion," <u>Proceedings of the 1993 IEEE/RSJ International Conference on Intelligent Robots and Systems</u> , Yokohama, Japan, July 26-30 1993, pages 99-105
	AKK	Wolfgang Zesch, et al., "Alignment of Microparts Using Force Controlled Pushing," <u>SPIE</u> , Vol. 3519, pages 148-156
✓	ALL	Y. Zhou, et al., "Adhesion force modeling and measurement for micromanipulation," <u>SPIE</u> , Vol. 3519, pages 169-180

Examiner Signature 	Date Considered 1-22-03
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